



NR. 656 S. 2/9



Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference I 423 12PC	FOR FURTHER ACTIO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (da		Priority date (day/month/year)			
PCT/EP2003/006140	11 June 2003 (11.06.2003)		12 June 2002 (12.06.2002)			
International Patent Classification (IPC) or n A61K 47/10 Applicant						
IFAC GMBH & CO. KG I	NSTITUT FÜR ANGE	WANDTE C	OLLOIDTECHNOLOGIE			
This international preliminary exami and is transmitted to the applicant ac-	nation report has been prepar cording to Article 36.	ed by this Inter	national Preliminary Examining Authority			
2. This REPORT consists of a total of	6 sheets, inclu	ding this cover s	sheet, ,			
This report is also accompanie amended and are the basis for 70.16 and Section 607 of the A	this report and/or sheets con	taining rectifica	on, claims and/or drawings which have been ations made before this Authority (see Rule			
These annexes consist of a tot	al of <u>4</u> sheets					
3. This report contains indications relati	ng to the following items:	,				
I Basis of the report	I Basis of the report					
II Priority						
III Non-establishment of	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of inve	IV Lack of unity of invention					
v Reasoned statement u citations and explana	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
		-				
Date of submission of the demand		of completion of	f this report			
09 January 2004 (09.01.2004)		20 August 2004 (20.08.2004)				
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.	Telep	Telephone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

Best Available Copy

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT/EP2003/006140

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I. Wi	th regard to t	the elements of the international application:*	
	the interr	national application as originally filed	
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H	1	I in the international application in written form.	
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ı. 🔲	The amen	idments have resulted in the cancellation of:	
_		description, pages	
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. 🗌	This report beyond the	t has been established as if (some of) the amendments had not been made, since disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	e they have been considered to go
in thi	acement shee his report as 70.17).	ets which have been furnished to the receiving Office in response to an invitation so "originally filed" and are not annexed to this report since they do not	on under Article 14 are referred to contain amendments (Rule 70.16
	•	sheet containing such amendments must be referred to under item 1 and annexed	A
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International application No. INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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IV. Lack of unity of invention					
1. In response to the invitation to restrict or pay additional fees the applicant has:					
restricted the claims.					
paid additional fees.					
paid additional fees under protest.					
neither restricted nor paid additional fees.					
2. This Authority found that the requirement of unity of invention is not complied with not to invite the applicant to restrict or pay additional fees.	h and chose, according to Rule 68.1,				
3. This Authority considers that the requirement of unity of invention in accordance with Ru	ules 13.1, 13.2 and 13.3 is				
complied with.					
not complied with for the following reasons:					
	ļ				
 Consequently, the following parts of the international application were the subject of international application were the subject of international application. 	national preliminary examination				
all parts.					
the parts relating to claims Nos.					
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YES

NO

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1-14

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	1-3	YES		
		Claims	4-14	NO		
	Inventive step (IS)	Claims		YES		
		Claims	1-14	NO		

Claims

Claims

2. Citations and explanations

Industrial applicability (IA)

See Supplemental Box

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

1) The present application relates to the use of ether-alcohols as solvents, dissolving intermediaries or dispersing agents for organic compounds (claims 1 and 2) and as dispersing agents or as a continuous phase for pigment dispersions (claims 1, 3 and 14). Further, the application relates to the use of ether-alcohols in the preparation of ether-alcohol/polyol-in-oil emulsions (claims 4-13).

The application was restricted with respect to the definition of the ether-alcohols used, which now comprises only monoalkylated C_{1-3} polyethylene glycols (n = 7-15 or n = 7-50). The amendments are supported by the description as filed (in particular page 4).

2) Reference is made to the following documents:

D1: WO 01 01960 A

D2: US-A-4 113 649

D3: GB-A-2 242 686

D4: WO 95 24179 A

D5: WO 96 39119 A

D6: WO 95 03781 A

D7: GB-A-2 004 746

D8: WO 97 44049 A

D9: US-A-2 907 670

D10: JP 04 308216 A

D11: WO 00 49099 A

D12: WO 92 07627 A"

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

3) Novelty

The restricted subject matter of the claims may be considered a novel selection over D1, D4, D5 and D9.

D2 describes polyethylene glycol diethers, not polyethylene glycol monoethers.

D3 and D6-D8 describe propoxylates, which fall outside the claimed subject matter.

D10 describes alkoxylated C_{4-18} ethoxylates, which fall outside the claimed subject matter.

D11 describes phosphates of alkoxylated ethoxylates as dispersing agents for pigments.

The claimed subject matter may therefore be considered novel over D1-D11.

However, D12 describes corresponding compounds that may be used as a base medium for defined protective agents, in which these protective agents are dissolved in the base medium or are present in some cases as a dispersion (cf. pages 14 and 17-19). In light of D12 the subject matter of claims 1-3 cannot be considered novel.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

4) Unity of invention

Use of the relevant compounds as solvents was already known from D12.

In relation to this prior art, any novel aspects of the use of ether-alcohols as solvents or dissolving intermediaries, for example, in the preparation of polyol/oil emulsions, lack a further basis of mutuality with the use of ether-alcohols in pigment dispersions in which active substances are not present in dissolved form.

5) Inventive step

The possibility of using monoalkoxylated ethoxylates (generically defined) as dissolving intermediaries was already known from D1, D4 and D5; their use in preparing oil emulsions has also been described (D4/D5).

Use of the specific compounds defined in the present application to similar purpose would therefore appear obvious to a person skilled in the art (claims 1-2, 4-13).

The argument that the relevant compounds are surprisingly suitable for the preparation of polyol/oil or polyol/oil/water emulsions is unconvincing, since (a) claims 1 and 2 do not

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

relate to solutions intended for use in the preparation of such emulsions and (b) D4 and D5 directly indicate that such compounds may be incorporated in such emulsions (D4: pages 6 and 23-24; D5: page 6).

D9 further discloses that monoalkoxylated ethoxylates (generically defined) may also be used as dispersing agents for pigments. On the basis of the general teaching of D9, use of the claimed compounds to this purpose would be considered obvious by a person skilled in the art (claims 1, 3 and 14).

In this connection the definition as a sunscreen (claim 14) does not imply any particular features that would substantiate inventive step. Although D9 does not relate specifically to sunscreens, the teaching of D9 relates to pigment dispersions in general. Further features associated with sunscreens would seem routine to a person skilled in the art (cf. D11).